

**TRANSMISSION SURVEILLANCE SYSTEM (TSS)
COMPUTER AND PERIPHERALS (DISK SYSTEM)
DATA BASE MANAGEMENT
L5/L5E CARRIER**

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1. GENERAL	1	1.01 This data base management section describes the TSS data base files and the methods, procedures, and computer programs used to perform the following operations:
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Data Base Initialization	2	1.02 This section has been reissued to reflect L5E and to update the existing TSS data.
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3. DATA BASE FILES	3	1.04 An understanding of the general operation of a TSS is a prerequisite to the use of this section and is covered in Section 359-300-310. Included in that section are the following information and procedures:
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NOTICE

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- System command structure
- File manager command structure
- Interactive editor description and use.

2. DATA BASE MAINTENANCE

A. General

2.01 The TSS data base is stored on a Hewlett-Packard HP 7900A or equivalent disk. The data is stored in ASCII and binary format. The data stored in ASCII format can be readily understood by an operator. It can also be edited using the HP interactive editor (EDITR) program. The edited file is used as an input to initialize and/or modify the binary data base on disk. The data stored in binary format is used by the TSS application programs (described in Section 359-300-312) to perform their designated functions. The binary files are created from the ASCII files using the DBGEN program. This process is described in paragraphs 2.06 through 2.09.

2.02 There are five separate ASCII files initially supplied in the TSS data base. The files are designated as FLOASC, GFPASC, MUXASC, L4PASC, and TIMTBL. A more detailed description of the individual files is provided in Part 3 of this section. If, for any reason, it is necessary to have more than one version of a particular ASCII data base file, the files may be saved with names that differ only after the first three characters. The first three characters should always be FLO, GFT, MUX, or L4P; the last three characters should always be alphanumeric.

B. Creating or Modifying the Data Base

2.03 All entries to the TSS data base must be made in a definite format. Each data base file must be maintained by the TSC operator with meaningful data for a specific TSS.

Data Base Initialization

2.04 After the initial system disk transfer (refer to Section 359-300-310) of the Western Electric supplied disk has been performed, the data base must then be initialized to describe the particular TSS.

Data Base Update

2.05 Whenever changes are made to the L carrier cable configuration, the TSS data base files (FLOASC, GFPASC, MUXASC, L4PASC, and TIMTBL) must be updated using the EDITR program. The operation and use of the EDITR program and its associated commands are provided in Section 359-300-310.

C. Data Base Generation

2.06 After any modification, the updated ASCII file (or files) must be converted to binary format for use by the TSS application programs. This is accomplished by running the DBGEN program.

2.07 When the DBGEN program is run, the following message exchange occurs:

Operator command:

***RU,DBGEN**

System:

ENTER ASCII FILE NAME:

Operator response:

The name of the ASCII data base is then entered according to the binary data base to be generated. The identity of the binary data base is determined by the first three letters of the name of the ASCII data base. Any binary data base that was previously generated will be overwritten when a new binary data base is generated. Thus, there can be several ASCII data bases of the same type in different files with different names, but there can only be one binary data base in the system at any one time.

System:

The following typical messages are printed, depending upon the ASCII data base being converted. An error message will be printed if there is an error detected in the format of the file or DBGEN cannot gain access to the file (refer to paragraph 2.08).

GFPASC

GFP D. B. GEN. IN PROGRESS 10:48 2/22/77

GFP D. B. GEN. COMPLETED

ENTER ASCII FILE NAME:

FLOASC

FLO D. B. GEN. IN PROGRESS 10:50 2/22/77

FLO D. B. GEN. COMPLETED

ENTER ASCII FILE NAME:

MUXASC

MUX D. B. GEN. IN PROGRESS 10:51 2/22/77

MUX D. B. GEN. COMPLETED

ENTER ASCII FILE NAME:

TIMTBL

PGM. SCHEDULE GEN. IN PROGRESS 10:52 2/22/77

ENTER ASCII FILE NAME:

L4PASC

L4P D.B. GEN. IN PROGRESS 10:53 2/22/77

L4P D. B. GEN COMPLETED

ENTER ASCII FILE NAME:

Operator response:

The name of the ASCII data base is entered according to the next binary data base to be generated. If no more data bases are to be generated, a /E is entered to terminate the program.

2.08 When generating from the FLOASC data base file, the error message: **ERROR IN FLOASC DATA BASE LINE xxx** can occur. This message indicates a format error or line error in the file in line number xxx. When converting the GFPASC or L4PASC data base file, the error message: **DUPLICATE ENTRY IN GFPASC/L4PASC FILE LINE xxx** can occur. This message indicates two entries for the same E2 station are entered on Line xxx and on a previous line. If either of the two error messages listed above are printed, the operator should investigate the file for errors, edit the file if necessary, and try to generate it again.

In addition to the above two error messages, any of the file manager (FMGR) error messages (**FMGR ERROR xxx**) can occur. A list of the more commonly FMGR error xxx codes and their meaning is included in Table A. For a more detailed list of codes, refer to Section 359-300-310.

D. Data Base Backup and Restoral

2.09 A backup of the TSC data base is copied on the removable disk containing the system backup. A system backup should be made each time the data base is updated. The disk containing the backup should be properly labeled and stored. Making a system backup and restoring the system to normal using the backup disk is described in Section 359-300-310.

3. DATA BASE FILES

A. General

3.01 Except for TIMTBL, the ASCII files in the TSS data base are divided into two sections. The first section contains common data, and the second section contains specific data such as that pertaining to a certain fault location section. The first section containing the common data should never be modified except under direction of AT&T or BTL.

3.02 The five data base files are preformatted on the disk supplied with the TSC software. Each of the data base files must be edited so that it describes the TSS in which the TSC is located. Use of the EDITR program is described in Section 359-300-310.

3.03 A listing of the preformatted or previously initialized data base file may be obtained prior to starting an edit. The operator should mark the data base file with data pertinent to the TSS. This copy can then be used as an aid during the edit process. The time required to obtain a copy of each of the data base files is as follows:

FILE	TIME
FLOASC	60 minutes
GFPASC	15 minutes
MUXASC	25 minutes
L4PASC	15 minutes
TIMTBL	—

B. Fault Location Oscillator Data Base File

3.04 The FLOASC data base file is comprised of data which enables the TSC to control automatic fault location on its L5/L5E routes. It includes data on limits, nominal levels, oscillator control information, and manhole numbers. The FLOASC file, when initialized and converted into binary format, is used by the application program FAULT (refer to Section 359-300-312) and other programs. A printout of Page 1 of the preformatted file supplied by Western Electric is shown in Fig. 1. The entire FLOASC file must always contain 530 lines.

3.05 Figure 2 is an edited version of a typical FLOASC data base file. This particular file describes part of the L5/L5E line section shown in Fig. 3. The column-by-column information contained in this file is described in Table B.

3.06 A drawing such as the one shown in Fig. 3 should be sketched prior to building a FLOASC or GFPASC data base. This sketch should be retained in office records and be available at the TSC for reference when running programs and interpreting printouts. For the FLOASC file, the drawing should include the following:

- (a) Titles and legend.
- (b) A symbol for each station, indicating the station type (TSC, switching power feed, etc). Associated with each symbol is the station name, its E2 address, and the route numbers (SAN route switch ports used to access the RLT ports) for each incoming line.
- (c) A connecting line between the station symbols for each part of the line. Associated with each part of the line is the 4-digit nationwide line code. Numbers are also used to indicate the lines equipped and the manholes that are included in each FLO control section.

3.07 The sections of the second part of the FLOASC data base file (lines 0020 through 0530) should be generated in logical order. Whenever possible, start with the section at the east (or at the north) end of the route and proceed to the west or to the south. The sections should be grouped together with no interspersed unused parts in the data base file.

3.08 It should be noted that there has to be a separate section in the FLOSAC data base for every route connecting to every office. In some cases there will be no repeaters listed in a particular section of the FLOASC data base since all repeaters are controlled by the office at the other end of that part of the line; nevertheless, the section data must be present. Among other reasons, this ensures that the functions that are present at every station are defined in the data base.

3.09 In addition to the data contained in Fig. 3, it is necessary to know which lines are standby lines. Occasionally, other information is needed (eg, whether Woodbine or Pottstown controls the part of line between these two stations).

C. Gain/Frequency/Pilot Data Base File

3.10 The GFPASC data base file is comprised of data which enables the TSC to control line gain/frequency runs on the L5/L5E line and to make line and multiplex pilot readings at various test points in the L5/L5E stations. It includes data on limits and nominal levels of the pilots, E2 addresses, lines equipped, switch access route information, whether or not the individual sections are switched, and if a multiplex section is involved. In addition, it contains information indicating what type of system (17 or 18 mastergroup L5, or 20 or 22 mastergroup L5E) is present on each equipped line. The GFPASC file, when initialized and converted into binary format, is used by the application programs PILOT, RESTO, and LINES (refer to Section 359-300-312). A printout of Page 1 of the preformatted file supplied by Western Electric is shown in Fig. 4. The entire GFPASC file must always contain 62 lines.

3.11 Figure 5 is an edited version of Page 1 of a typical GFPASC data base file. This particular file describes the TSS layout shown in Fig. 3. The information contained in this particular file is described in Table C.

3.12 The sketch shown in Fig. 3 that was prepared for FLOASC data base generation can also be used when generating the GFPASC data base file. In addition to information contained in Fig. 3, it is also necessary to know where multiplex equipment is present at each of the stations along the line.

3.13 The sections of the second part of the data base file (lines 0022 through 0062) should be generated in logical order as discussed in paragraph 3.14. The sections should be entered with no interspersed unused parts in the data base file.

3.14 A list of allowable combinations of transmitting (TRMT) and receiving (RCVG) E2 addresses and switch access route numbers is developed. Starting at the switching station nearest to the east (or north) end of the TSS route, pair its E2 TRMT address with the E2 RCVG address of all the allowable receiving stations, including the following:

- (a) The next switching-type station on either side of TRMT
- (b) Each power feed station in each direction between the TRMT station and the next switching-type station
- (c) If the TRMT station is equipped with JMX or MMGT equipment (regardless of the number of stations involved), (a) and (b) must be repeated for each switching station in the route, working from east to west (or north to south).

3.15 By following the above rules, the list will not include any sections which have JMX or MMGT equipment at a midstation. The JG or MMG dropping and frogging arrangements make it impractical to measure pilots through such an office. Note also that a portion of a line between a switching station and a power feed station is only included in one direction of transmission. This is because the LINES program can only be initiated from switching stations.

D. Multiplex Data Base File

3.16 The MUXASC data base file is comprised of data which enables the TSC to control measurements of jumbogroup multiplex (JMX) and/or multimastergroup translator (MMGT) pilots at stations along the L5/L5E line. It includes data on limits and nominal levels on JMX and MMGT pilots and access information for each multiplex section. The MUXASC file, when initialized and converted into binary format, is used by the application program MUXPG (refer to Section

359-300-312). A printout of Page 1 of the preformatted file supplied by Western Electric is shown in Fig. 6. The entire MUXASC file contains 446 lines.

3.17 Figure 7 is an edited version of Page 1 of a typical MUXASC data base file. This particular file describes the TSS layout shown in Fig. 3. The information contained in this file is described in Table D.

3.18 Before building a MUXASC data base, it is desirable to complete a work sheet such as the one shown in Fig. 8. A partially completed work sheet is shown in Fig. 9. This work sheet should be retained in office records and updated as the system grows. The data from this work sheet should be entered with no interspersed unused parts in the data base file.

3.19 There should be an entry on the work sheet for each JG or MMG connection between any two stations in the TSS. Each entry in this table will be used to formulate two entries in the MUXASC data base file, one for each direction of transmission (station A to station B and station B to station A). Both entries will have the same number for MXCODE, but will only contain entries for one each of the section. The headers for the different columns in Fig. 8 are the same as the header used in the MUXASC data base file. These headers are described in Table D.

E. L4 Pilot Data Base File

3.20 The L4PASC data base file is comprised of data which enables the TSC to control L4 line pilot readings. These readings are made on conversion routes at various test points in the L5/L5E stations. It includes data on limits and nominal levels of the pilots, E2 addresses, lines equipped, switch access route information, the number of switching sections between the stations, and also whether or not there is a TSS-CTMS hybrid present in the L4 calibration path. The L4PASC file, when initialized and converted into binary format, is used by the application program L4PIL (refer to Section 359-300-312). A printout of the preformatted file supplied by Western Electric is shown in Fig. 10.

3.21 Figure 11 is an edited version of a typical L4PASC data base file. This particular file

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describes the L4 line shown in Fig. 12. The information contained in this file is described in Table E.

3.22 A drawing such as the one shown in Fig. 12 should be sketched prior to building an L4PASC data base. The sketch is basically similar to the one that is shown in Fig. 3 for an L5/L5E line. Whenever possible, start at the east (or at the north) end of the TSS and pair its E2 TRMT address with the E2 RCVG address of all receiving stations described as follows:

- (a) The nearest switching-type station in each direction
- (b) Any large part of the route between switching stations that is desired to be included in the L4PIL program printout.

This procedure must be repeated for each station in the system. The entries should be grouped so that there are no interspersed unused parts in the data base file.

F. Timetable Data Base File

3.23 The TIMTBL data base file is comprised of scheduling information data which enables the TSC to automatically perform application programs (Section 359-300-312) at a certain time and interval. A printout of the preformatted file supplied by Western Electric is shown in Fig. 13. As shown in Fig. 13, the preformatted file contains two examples which can be followed to schedule the application programs FAULT and PILOT.

3.24 In Fig. 13, the asterisks (**) at the start of a line causes the TIMTBL program to ignore the line when searching for programs to schedule. An operator may add as many lines as he wishes starting with ** for comment purposes without affecting the scheduling process. Also, lines 0010, 0011, 0021, 0023, 0024, and 0035 are for information purposes only and do not have to be entered.

3.25 Editing the TIMTBL file to schedule programs requires additional line of data starting at line 36 (see Fig. 14). The first line contains the program name, the day or date the program is to run, the starting time, and a number of the list

device on which the output is to be printed. A specific day of the month (eg, 25 for the 25th day of each month) may be given for the day the program is to run. It may also be scheduled to run once each week by specifying the day of the week to run. Use at least the first two letters of the day (ie, MO for Monday, TU for Tuesday, etc). If it is to run everyday, enter EV or EVERYDAY instead. The output device is given as 1 for the system console, 6 for the line printer when available, 10 for the data set, and 30 for a remote console.

3.26 Succeeding lines of an individual schedule are response that would be given if the program were being run in the demand mode. Some of the most commonly used prompters are listed in Table F. For a full explanation of prompters and responses, see the input formation portions of Section 359-300-312 for application programs and Section 359-300-510 for diagnostic programs. A /E entry in TIMTBL is often required to answer a "continue" question so that the program will terminate after it has performed the requirements of the schedule. /E is also used to separate the different program schedules.

3.27 Figure 14 is a partially edited version of a typical TIMTBL data base file. The information in this file is described in Table G.

4. REFERENCES

4.01 The following reference material supplements this section:

Schematic Drawings

DRAWING	TITLE
SD-51200-01	L5/L5E Carrier, Transmission Surveillance System, Application Schematic
SD-51203-01	L5/L5E Carrier, Transmission Surveillance System, Switched Access Network
SD-51204-01	L5/L5E Carrier, Transmission Surveillance System, Manual Fault Location Test Set

DRAWING	TITLE	SECTION	TITLE
SD-51205-01	L5/L5E Carrier, Transmission Surveillance System, Auxiliary Digital Control Unit Circuit	359-300-107	L5/L5E Carrier, Transmission Surveillance System (TSS), General Administrative Procedures
SD-51206-01	L5/L5E Carrier, Transmission Surveillance System, Power Enabler and Decoder Circuit	359-300-300	L5/L5E Carrier, Overall System, L5/E2 Alarm Analysis
SD-51207-01	L5/L5E Carrier, Transmission Surveillance System, Manual Control and Display System	359-300-301	L5/L5E Carrier, Overall System, L5/E2 Alarm Analysis
SD-51208-01	L5/L5E Carrier, Transmission Surveillance System, Metering and Local Control Circuit	359-300-310	L5/L5E Carrier, Transmission Surveillance System, Computer and Peripherals (Disc System), General Operation
SD-51209-01	L5/L5E Carrier, Transmission Surveillance System, Power Distribution Circuit	359-300-312	L5/L5E Carrier, Transmission Surveillance System—Cable
SD-51210-01	L5/L5E Carrier, Transmission Surveillance System, Multiple Access Interface Circuit	359-300-510	L5/L5E Carrier, Transmission Surveillance System—Cable, Computer and Peripherals (Punched Paper Tape Diagnostic)
Task Oriented Practices (TOP)			
		SECTION	TITLE
SD-51212-01	L5/L5E Carrier, Transmission Surveillance System, Power Control Circuit for Fault Location Oscillators		
SD-51213-01	L5/L5E Carrier, Transmission Surveillance System, Fault Location Oscillator Unit	356-570-000	L Multiplex Terminals, Mastergroup Translator System (MGTA)
SD-51230-01	L5/L5E Carrier, Jumbogroup Multiplex, Application Schematic	356-570-001	L Multiplex Terminals, Mastergroup Translator System (MGTB)
SD-6G092-01	Transmission Test Equipment, Carrier-Frequency Transmission Measuring Sets, 90-Type Equipment, 90F Digital Control Unit	356-671-000	L Multiplex Terminals, TMX-1, Maintenance
Bell System Practices		359-372-000	L5/L5E Carrier, Main Station Line Bays
		359-375-000	L5/L5E Carrier, High-Frequency Line Transmission (Switching Section)
SECTION	TITLE		
359-300-100	L5/L5E Carrier, Overall System, Description	357-377-000	L5/L5E Carrier, Transmission Surveillance Auxiliary
359-300-105	L5/L5E Carrier, Transmission Surveillance System—Cable	359-381-000	L5/L5E Carrier, Transmission Surveillance Center (Bay Equipment)

TABLE A
COMMON FILE MANAGER ERROR CODES

ERROR CODE	MEANING
-001	Disc error (down).
-002	Duplicate file name.
-003*	Backspace not legal (type-0 file).
-004*	File too long or record size error (type-0 file).
-005*	Attempt to read or position to a record not written, or (on update) to write an illegal length record.
-006	Cartridge not found, file not found, or no room.
-007	Invalid security code.
-008	File currently open. Eight programs (too many) have attempted access; exclusive open or lock rejected.
-009	Attempt to open type-0 file as type-1, or to use APOSN (position) on type-0 file.
-010*	Not enough parameters.
-011*	DCB (data control block) not open.
-012*	EOF (end-of-file) or SOF (start-of-file) error.
-013	Cartridge locked.
-014	Directory full.
-015	Illegal name.
-016	Illegal type, or size = 0 (on CR only).
-017	Illegal read or write attempted on type-0 file.

*These codes indicate a program or machine error.

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JB      T=00003 IS ON CRO0002 USING 00096 BLKS R=0000

0001  HEADING: DRANESVILLE,VA.
0002      FAULT LOCATION OSCILLATOR ASCII DATA BASE
0003      PR-50023-01-FLOASC ISSUE 3 3/30/78
0004  ALARM LEVELS:
0005  BA RPT GAIN  REG RPT GAIN  RMS DEV(%)  LINE LOSS  LOSS OF TONE
0006      1.5          5.5          .15          10.00      -75.0
0007
0008  TONE LEV PILOT SCL:  TEMP PILOT LEVELS:
0009  MINIMUM  MAXIMUM      RLT   TT   TLT
0010     -65.0   -40.0      -37.7 -75.7 -46.00
0011
0012  LEVELS:
0013  REC LF FLO OUT  FLO REC  REC HF FLO OUT  XMT CAL OUT  CAL REC
0014     -53.50      -55.0      -52.60      -25.0      -50.00
0015
0016  FAULT TONES(KHZ):
0017  LOW INPUT  LOW OUTPUT  HIGH INPUT  HIGH OUTPUT  PREDICTED DEV
0018     1590.0    1600.0    68600.00   68650.00     .5
0019  * * * * *
0020  LINES IN SERVICE(1 = IN SERVICE)          FAULT SEC:  B
0021  502 504 506 508 510 512 514 516 518 520 522 STBY  SEC# LN CODE N
0022     1  1  0  0  0  0  0  0  0  0  0  501  01  3667  0
0023  RECEIVE FLO  RECEIVE FLO
0024  E2 ADDRS E2  ROUTE #S RTE  FCTS PRESENT(=1) @ FLO CONTROL STA
0025  ODD EVEN ADD  ODD EVEN #    1  2  3  4  5  6  7  8  9 10 11 12
0026     21 22 21   01 02 01    1  1  0  0  1  0  0  0  1  0  0  0

0028  MANHOLES(CONTROLLED FROM FLO E2 ADDRESS):
0029  1ST LAST EXTRA OR (NEGATIVE "-" )MISSING - - - - -
0030  0000 0160 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999
0031
0032  MANHOLES:
0033  STA1 STA2 EQU  REGS - - - - -
0034  0000 0160 9999 0050 0100 9999 9999 9999 9999 9999 9999 9999
0035  * * * * *
0036  LINES IN SERVICE(1 = IN SERVICE)          FAULT SEC:  B
0037  502 504 506 508 510 512 514 516 518 520 522 STBY  SEC# LN CODE N
0038     1  1  0  0  0  0  0  0  0  0  0  501  02  3667  1
0039  RECEIVE FLO  RECEIVE FLO
0040  E2 ADDRS E2  ROUTE #S RTE  FCTS PRESENT(=1) @ FLO CONTROL STA
0041  ODD EVEN ADD  ODD EVEN #    1  2  3  4  5  6  7  8  9 10 11 12
0042     22 23 23   04 03 03    1  1  0  0  1  0  0  0  1  0  0  0
0043
0044  MANHOLES(CONTROLLED FROM FLO E2 ADDRESS):
0045  1ST LAST EXTRA OR (NEGATIVE "-" )MISSING - - - - -
0046  0000 0230 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999
0047

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Fig. 2—Typical FLOASC Data Base File

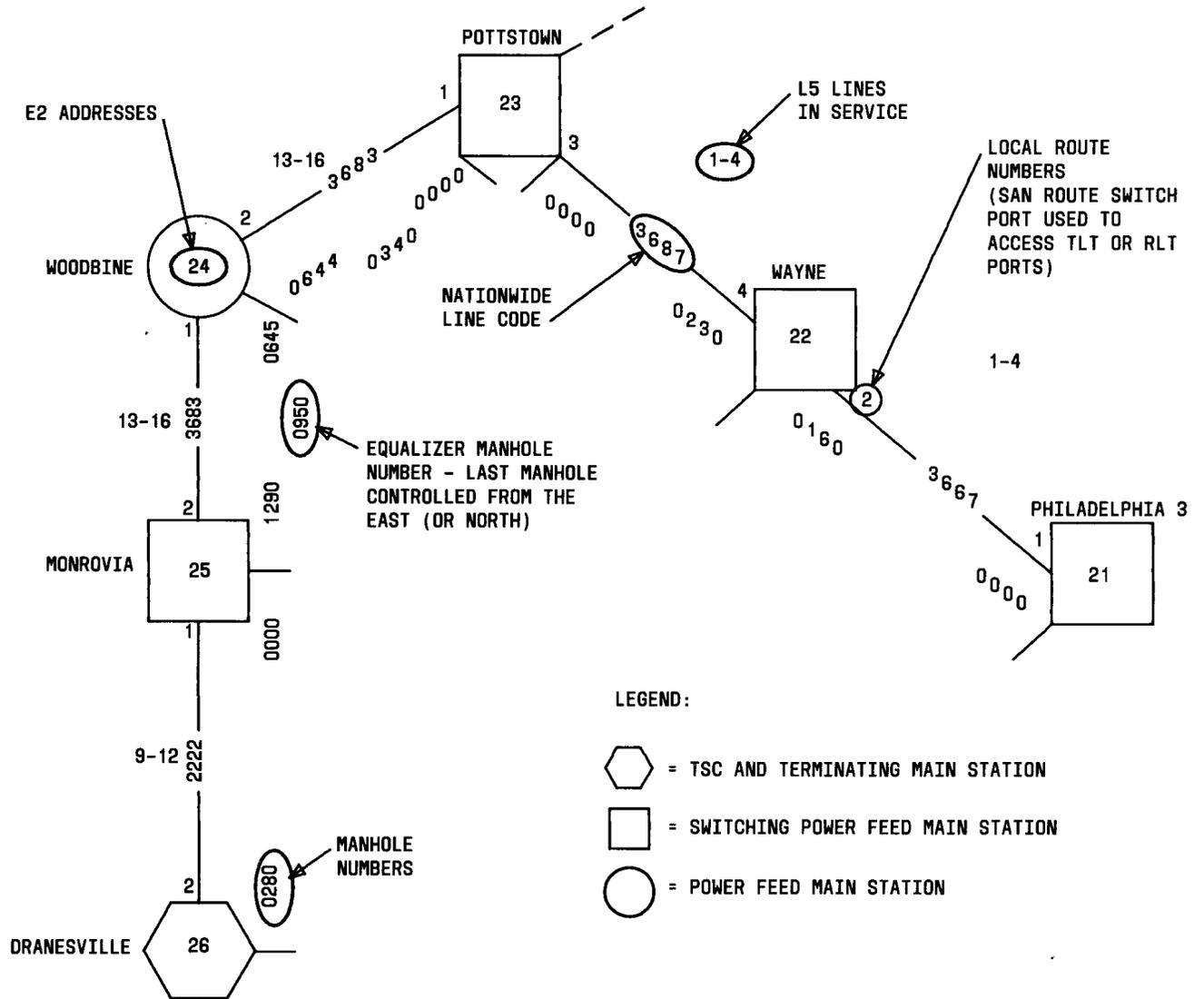


Fig. 3—Typical L5/L5E Line From Which L5/L5E Data Base Files in Fig. 2, 5, and 7 are Developed

TABLE B

FLOASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE												
0001	Heading (TSC station name and date of last modification to file).	Locally Provided												
0002 0003	Identifying information for the file — FAULT LOCATION OSCILLATOR ASCII DATA BASE PR-50023-01-FLOASC ISSUE 3 3/30/78	Preformatted Data Base File												
0004	Header information—ALARM LEVELS:	Preformatted Data Base File												
	Header information and alarm levels are defined as follows:													
	<table border="0"> <thead> <tr> <th style="text-align: left;"><u>Header and Level</u></th> <th style="text-align: left;"><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td>BA RPT GAIN 1.5</td> <td>±1.5 dB is the gain deviation from the nominal value for basic repeaters which causes the FAULT PROGRAM to print an * flag.</td> </tr> <tr> <td>REG RPT GAIN 5.5</td> <td>±5.5 dB is the gain deviation from the nominal value for regulator repeaters which causes the FAULT program to print an * flag.</td> </tr> <tr> <td>RMS DEV (%) .15</td> <td>±.15% is the limit for the average RMS deviation for noisy measurements which causes the FAULT program to print a % flag.</td> </tr> <tr> <td>LINE LOSS 10.00</td> <td>10 dB is the line loss limit which, when exceeded, causes the FAULT program to print a # flag.</td> </tr> <tr> <td>LOSS OF TONE -75.0</td> <td>-75 dB is the level limit which, when the tone is below, causes the FAULT program to assume that tone is missing and print a ? flag.</td> </tr> </tbody> </table>		<u>Header and Level</u>	<u>Meaning</u>	BA RPT GAIN 1.5	±1.5 dB is the gain deviation from the nominal value for basic repeaters which causes the FAULT PROGRAM to print an * flag.	REG RPT GAIN 5.5	±5.5 dB is the gain deviation from the nominal value for regulator repeaters which causes the FAULT program to print an * flag.	RMS DEV (%) .15	±.15% is the limit for the average RMS deviation for noisy measurements which causes the FAULT program to print a % flag.	LINE LOSS 10.00	10 dB is the line loss limit which, when exceeded, causes the FAULT program to print a # flag.	LOSS OF TONE -75.0	-75 dB is the level limit which, when the tone is below, causes the FAULT program to assume that tone is missing and print a ? flag.
<u>Header and Level</u>	<u>Meaning</u>													
BA RPT GAIN 1.5	±1.5 dB is the gain deviation from the nominal value for basic repeaters which causes the FAULT PROGRAM to print an * flag.													
REG RPT GAIN 5.5	±5.5 dB is the gain deviation from the nominal value for regulator repeaters which causes the FAULT program to print an * flag.													
RMS DEV (%) .15	±.15% is the limit for the average RMS deviation for noisy measurements which causes the FAULT program to print a % flag.													
LINE LOSS 10.00	10 dB is the line loss limit which, when exceeded, causes the FAULT program to print a # flag.													
LOSS OF TONE -75.0	-75 dB is the level limit which, when the tone is below, causes the FAULT program to assume that tone is missing and print a ? flag.													
0005 0006														
	Header information and pilot levels (Note) are defined as follows:													
	<table border="0"> <thead> <tr> <th style="text-align: left;"><u>Header and Level</u></th> <th style="text-align: left;"><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td>TONE LEV PILOT SCL: MINIMUM MAXIMUM -65.0 -40.0</td> <td>Minimum and maximum tone level pilot scale: -65.0 dBm minimum value and -40.0 dBm maximum value for FLO tone amplitudes to be plotted by the FAULT program.</td> </tr> <tr> <td>TEMP PILOT LEVELS: RLT TT TLT -37.7 -75.7 -46.00</td> <td>Nominal temperature pilot tone levels at receiving line test point (RLT), transmitting test point (TT), and transmitting line test point (TLT), RLT = -37.7 dBm, TT = -75.7 dBm, and TLT = -46.00 dBm expected by the FAULT program.</td> </tr> </tbody> </table>	<u>Header and Level</u>	<u>Meaning</u>	TONE LEV PILOT SCL: MINIMUM MAXIMUM -65.0 -40.0	Minimum and maximum tone level pilot scale: -65.0 dBm minimum value and -40.0 dBm maximum value for FLO tone amplitudes to be plotted by the FAULT program.	TEMP PILOT LEVELS: RLT TT TLT -37.7 -75.7 -46.00	Nominal temperature pilot tone levels at receiving line test point (RLT), transmitting test point (TT), and transmitting line test point (TLT), RLT = -37.7 dBm, TT = -75.7 dBm, and TLT = -46.00 dBm expected by the FAULT program.							
<u>Header and Level</u>	<u>Meaning</u>													
TONE LEV PILOT SCL: MINIMUM MAXIMUM -65.0 -40.0	Minimum and maximum tone level pilot scale: -65.0 dBm minimum value and -40.0 dBm maximum value for FLO tone amplitudes to be plotted by the FAULT program.													
TEMP PILOT LEVELS: RLT TT TLT -37.7 -75.7 -46.00	Nominal temperature pilot tone levels at receiving line test point (RLT), transmitting test point (TT), and transmitting line test point (TLT), RLT = -37.7 dBm, TT = -75.7 dBm, and TLT = -46.00 dBm expected by the FAULT program.													
0008 0009 0010														
0012	Header information—LEVELS:													

Note: Limits for equalizing and station repeaters are not equal for positive and negative gain. The values are computed from the following formula:

$$1.75 + (14.5/11) \times \text{regulating repeater limit}$$

TABLE B (Contd)

FLOASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE														
0022	<p>L5 lines in service, standby line pair (STBY), fault section number (SEC#), nationwide line code (LN CODE), and manhole number plan are identified in columns as follows:</p> <table border="0"> <thead> <tr> <th><u>Column</u></th> <th><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td>1 thru 11</td> <td>Lines in service are indicated by entering a 1 under those lines equipped. For example, a 1 under columns 1 and 2 indicates that L5 lines 501, 502, 503 and 504 are in service for this particular section.</td> </tr> <tr> <td></td> <td>A 0 under columns 3 thru 11 indicates that lines 505 thru 522 are not in service for this particular section.</td> </tr> <tr> <td>12</td> <td>The odd number 501 indicates that line pair 501 and 502 is the standby line pair for this particular section.</td> </tr> <tr> <td>13</td> <td>01 is the sequence number for this particular section. It must never be modified.</td> </tr> <tr> <td>14</td> <td>3667 is the line code identification number for this particular section.</td> </tr> <tr> <td>15</td> <td>A 0 under BN (abbreviation for backward numbered) indicates that both the lines and manholes for this particular section are numbered in the standard manner (manhole numbers assigned in ascending order—north to south or east to west and odd numbers assigned to lines transmitting north or east and even numbers assigned to lines transmitting south or west), or both are numbered in reverse order. A 1 under this column indicates that only the manholes are numbered in reverse order or that only the line numbers are assigned in the reverse order.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	1 thru 11	Lines in service are indicated by entering a 1 under those lines equipped. For example, a 1 under columns 1 and 2 indicates that L5 lines 501, 502, 503 and 504 are in service for this particular section.		A 0 under columns 3 thru 11 indicates that lines 505 thru 522 are not in service for this particular section.	12	The odd number 501 indicates that line pair 501 and 502 is the standby line pair for this particular section.	13	01 is the sequence number for this particular section. It must never be modified.	14	3667 is the line code identification number for this particular section.	15	A 0 under BN (abbreviation for backward numbered) indicates that both the lines and manholes for this particular section are numbered in the standard manner (manhole numbers assigned in ascending order—north to south or east to west and odd numbers assigned to lines transmitting north or east and even numbers assigned to lines transmitting south or west), or both are numbered in reverse order. A 1 under this column indicates that only the manholes are numbered in reverse order or that only the line numbers are assigned in the reverse order.	(See Fig. 2) Columns 1—12 and 15 information is obtained from local records; column 13 information is obtained from preformatted data base file; column 14 information is obtained from engineering line drawings.
<u>Column</u>	<u>Meaning</u>															
1 thru 11	Lines in service are indicated by entering a 1 under those lines equipped. For example, a 1 under columns 1 and 2 indicates that L5 lines 501, 502, 503 and 504 are in service for this particular section.															
	A 0 under columns 3 thru 11 indicates that lines 505 thru 522 are not in service for this particular section.															
12	The odd number 501 indicates that line pair 501 and 502 is the standby line pair for this particular section.															
13	01 is the sequence number for this particular section. It must never be modified.															
14	3667 is the line code identification number for this particular section.															
15	A 0 under BN (abbreviation for backward numbered) indicates that both the lines and manholes for this particular section are numbered in the standard manner (manhole numbers assigned in ascending order—north to south or east to west and odd numbers assigned to lines transmitting north or east and even numbers assigned to lines transmitting south or west), or both are numbered in reverse order. A 1 under this column indicates that only the manholes are numbered in reverse order or that only the line numbers are assigned in the reverse order.															
0023 0024 0025	<p>Header information—</p> <table border="0"> <tr> <td>RECEIVE FLO</td> <td>RECEIVE FLO</td> </tr> <tr> <td>E2 ADDRS E2</td> <td>ROUTE #S RTE</td> </tr> <tr> <td>ODD EVEN ADD</td> <td>ODD EVEN #</td> </tr> </table> <p>FCTS PRESENT(=1) @ FLO CONTROL STA 1 2 3 4 5 6 7 8 9 10 11 12</p>	RECEIVE FLO	RECEIVE FLO	E2 ADDRS E2	ROUTE #S RTE	ODD EVEN ADD	ODD EVEN #	Preformatted Data Base File								
RECEIVE FLO	RECEIVE FLO															
E2 ADDRS E2	ROUTE #S RTE															
ODD EVEN ADD	ODD EVEN #															
0026	<p>E2 addresses, local route numbers, and functions present information identified in columns as follows:</p> <table border="0"> <thead> <tr> <th><u>Column</u></th> <th><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>21 is the E2 address for the odd-numbered line at the receiving end of the particular power-feed section</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	1	21 is the E2 address for the odd-numbered line at the receiving end of the particular power-feed section	Engineering Drawings										
<u>Column</u>	<u>Meaning</u>															
1	21 is the E2 address for the odd-numbered line at the receiving end of the particular power-feed section															

TABLE B (Contd)

FLOASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE								
0032 0033	Header information— MANHOLES: STA1 STA2 EQU REGS -----	Preformatted Data Base File								
0034	<p>This line contains a listing of all repeaters that are not basic repeaters (station, equalizing, or regulating):</p> <table border="0"> <thead> <tr> <th><u>Column</u></th> <th><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td>1 and 2</td> <td>0000 is the assigned manhole number for the station having FLO control. 0160 is the assigned manhole number for the far-end station. In this special case, it is controlled as part of the current FLO control section. Usually, the far-end station repeater is not so controlled, and the number 9999 is left in this column.</td> </tr> <tr> <td>3</td> <td>9999 indicates that there are no equalizing repeaters in this section.</td> </tr> <tr> <td>4 thru 12</td> <td>0050 and 0100 in columns 4 and 5 are regulating repeater manhole numbers. 9999 in columns 6 thru 12 indicates an absence of any more regulating repeaters.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	1 and 2	0000 is the assigned manhole number for the station having FLO control. 0160 is the assigned manhole number for the far-end station. In this special case, it is controlled as part of the current FLO control section. Usually, the far-end station repeater is not so controlled, and the number 9999 is left in this column.	3	9999 indicates that there are no equalizing repeaters in this section.	4 thru 12	0050 and 0100 in columns 4 and 5 are regulating repeater manhole numbers. 9999 in columns 6 thru 12 indicates an absence of any more regulating repeaters.	<p>Local records</p> <p>Engineering Line Drawings</p>
<u>Column</u>	<u>Meaning</u>									
1 and 2	0000 is the assigned manhole number for the station having FLO control. 0160 is the assigned manhole number for the far-end station. In this special case, it is controlled as part of the current FLO control section. Usually, the far-end station repeater is not so controlled, and the number 9999 is left in this column.									
3	9999 indicates that there are no equalizing repeaters in this section.									
4 thru 12	0050 and 0100 in columns 4 and 5 are regulating repeater manhole numbers. 9999 in columns 6 thru 12 indicates an absence of any more regulating repeaters.									
0036 thru 0050	Lines 0036 thru 0050, 0052 thru 0066, 0068 thru 0082, etc, are repetitions of lines 0020 thru 0034 for other FLO sections (Fig. 3)	Local records								

```

0001 HEADING: -----
0002         GAIN, FREQUENCY AND PILOT ASCII DATA BASE
0003         PR-50023-01-GFPASC ISSUE 2 11/11/77
0004         FREQUENCY RANGE(KHZ):      XMTR SEND  FLAT GAIN
0005         LOW  HIGH  STEP  TYPE ACC  LEVEL DBM  ADJUST DB
0006         1000. 70000. 1000. 1.00 1    -25.0    -25.0
0007
0008         TLT LEVELS IN DBM AT:
0009         LP1  LP2  LP3  LP4  JG1  JG2  JG3  MMG1  MMG2  MMG3
0010         -49.5 -48.1 -46.54 -51.1 -59.0 -57.6 -56.3 -60.5 -59.1 -57.8
0011
0012         TLT DIFF. IN DB  LINE DEVIATION IN DB/# SW SECTS
0013         LN PILOT  OTHER  0  1  2  3  4  5  6
0014         .5    2.0    0.4 0.6 0.9 1.2 1.6 2.0 2.4
0015
0016         ALLOWABLE COMBINATIONS OF TRANS & REC E2 ADDRESSES &
0017         SWITCH ACCESS ROUTE #S. ENTER 1 IF LINES ARE ODD &
0018         0 IF EVEN. ENTER 1 FOR LINES PRESENT OR 0 IF NOT.
0019
0020         XM XM RC RC E 501 03 05 07 09 11 13 15 17 19 21 #SW MUX
0021         E2 RT E2 RT 0 502 04 06 08 10 12 14 16 18 20 22 SEC SEC
0022         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0023         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0024         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0025         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0026         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0027         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0028         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0029         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0030         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0031         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0032         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0033         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0034         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0035         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0036         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0037         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0038         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0039         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0040         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0041         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0042         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0043         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0044         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0045         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0046         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0047         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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Fig. 4—Preformatted GFPASC Data Base File

GFPASC T=00004 IS ON CRO0002 USING 00013 BLKS R=0000

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0001 HEADING: DRANESVILLE,VA.
0002 GAIN, FREQUENCY AND PILOT ASCII DATA BASE
0003 PR-50023-01-GFPASC ISSUE 2 11/11/77
0004 FREQUENCY RANGE(KHZ): XMTR SEND FLAT GAIN
0005 LOW HIGH STEP TYPE ACC LEVEL DBM ADJUST DB
0006 1000. 70000. 1000. 1.00 1 -25.0 -25.0
0007
0008 TLT LEVELS IN DBM AT:
0009 LP1 LP2 LP3 LP4 JG1 JG2 JG3 MMG1 MMG2 MMG3
0010 -49.5 -48.1 -46.54 -51.1 -59.0 -57.6 -56.3 -60.5 -59.1 -57.8
0011
0012 TLT DIFF IN DB LINE DEVIATION IN DB/#SW SECTS
0013 LN PILOT OTHER 0 1 2 3 4 5 6
0014 .5 2.0 0.4 0.6 0.9 1.2 1.6 2.0 2.4
0015
0016 ALLOWABLE COMBINATIONS OF TRANS & REC E2 ADDRESSES &
0017 SWITCH ACCESS ROUTE #S. ENTER 1 IF LINES ARE ODD &
0018 0 IF EVEN. ENTER 1 FOR LINES PRESENT OR 0 IF NOT.
0019
0020 XM XM RC RC E 501 03 05 07 09 11 13 15 17 19 21 #SW MUX
0021 E2 RT E2 RT 0 502 04 06 08 10 12 14 16 18 20 22 SEC SEC
0022 21 1 22 2 0 1 1 0 0 0 0 0 0 0 0 0 0 1 1
0023 22 2 21 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1
0024 23 1 24 2 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0
0025 23 1 25 2 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1
0026 25 2 23 1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1
0027 25 2 24 1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0
0028 25 1 26 2 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1
0029 26 2 25 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1
0030 22 4 23 3 0 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1
0031 23 3 22 4 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1
0032 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0033 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0034 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0035 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0036 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0037 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0038 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0039 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0040 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0041 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0042 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0043 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0044 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0045 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0046 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0047 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
    
```

Fig. 5—Typical GFPASC Data Base File

TABLE C

GFPASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE																
0001	Heading (TSC station name and date of last modification to file).	Locally provided																
0002 0003	Identifying information for the file—GAIN, FREQUENCY AND PILOT ASCII DATA BASE PR-50023-01-GFPASC ISSUE 2 11/11/77	---																
0004 0005	Header information— FREQUENCY RANGE (KHZ) XMTR SEND FLAT GAIN LOW HIGH STEP TYPE ACC LEVEL DBM ADJUST DB	Preformatted Data Base File																
0006	Frequency limits and nominal pilot levels are identified in columns as follows: <table border="0"> <thead> <tr> <th><u>Column</u></th> <th><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1000. kHz default value for the lowest frequency that can be transmitted (> 10 kHz) during a gain/frequency test.</td> </tr> <tr> <td>2</td> <td>70,000. kHz default value for the highest frequency that can be transmitted (<100,000 kHz) during a gain/frequency test.</td> </tr> <tr> <td>3</td> <td>1000. kHz step default value of first frequency increment for a gain/frequency test. If this value is altered, the value entered should be such that there are less than 382 frequency measurements.</td> </tr> <tr> <td>4</td> <td>1 is default value for power of values for frequencies on which equal size frequency increments are based (ie, 1 = linear scale and 0.5 = square root of frequency scale).</td> </tr> <tr> <td>5</td> <td>1 is the number of measurements to be made and averaged at each frequency step.</td> </tr> <tr> <td>6</td> <td>−25.0 dBm is the transmitter output level for the gain/frequency test.</td> </tr> <tr> <td>7</td> <td>−25.0 dB is the expected flat gain from the transmitter to the receiver for the gain/frequency test.</td> </tr> </tbody> </table>		<u>Column</u>	<u>Meaning</u>	1	1000. kHz default value for the lowest frequency that can be transmitted (> 10 kHz) during a gain/frequency test.	2	70,000. kHz default value for the highest frequency that can be transmitted (<100,000 kHz) during a gain/frequency test.	3	1000. kHz step default value of first frequency increment for a gain/frequency test. If this value is altered, the value entered should be such that there are less than 382 frequency measurements.	4	1 is default value for power of values for frequencies on which equal size frequency increments are based (ie, 1 = linear scale and 0.5 = square root of frequency scale).	5	1 is the number of measurements to be made and averaged at each frequency step.	6	−25.0 dBm is the transmitter output level for the gain/frequency test.	7	−25.0 dB is the expected flat gain from the transmitter to the receiver for the gain/frequency test.
<u>Column</u>	<u>Meaning</u>																	
1	1000. kHz default value for the lowest frequency that can be transmitted (> 10 kHz) during a gain/frequency test.																	
2	70,000. kHz default value for the highest frequency that can be transmitted (<100,000 kHz) during a gain/frequency test.																	
3	1000. kHz step default value of first frequency increment for a gain/frequency test. If this value is altered, the value entered should be such that there are less than 382 frequency measurements.																	
4	1 is default value for power of values for frequencies on which equal size frequency increments are based (ie, 1 = linear scale and 0.5 = square root of frequency scale).																	
5	1 is the number of measurements to be made and averaged at each frequency step.																	
6	−25.0 dBm is the transmitter output level for the gain/frequency test.																	
7	−25.0 dB is the expected flat gain from the transmitter to the receiver for the gain/frequency test.																	
0008 0009	Header information— TLT LEVELS IN DBM AT: LP1 LP2 LP3 LP4 JG1 JG2 JG3 MMG1 MMG2 MMG3																	
0010	Normal pilot levels at TLT point are identified in columns as follows: <table border="0"> <thead> <tr> <th><u>Column</u></th> <th><u>Pilot</u></th> <th><u>Level</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.976 kHz line pilot</td> <td>−49.5 dBm</td> </tr> </tbody> </table>	<u>Column</u>	<u>Pilot</u>	<u>Level</u>	1	2.976 kHz line pilot	−49.5 dBm											
<u>Column</u>	<u>Pilot</u>	<u>Level</u>																
1	2.976 kHz line pilot	−49.5 dBm																

TABLE C (Contd)

GFPASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS						SOURCE
0010 (Contd)	<u>Column</u>	<u>Pilot</u>	<u>Level</u>	Preformatted Data Base File			
	2	20.992 khz line pilot	-48.1 dBm				
	3	42.880 kHz line pilot	-46.54 dBm				
	4	66.048 kHz line pilot 1	-51.1 dBm				
	5	Jumbogroup pilot 1 (5888.0 kHz for 17 mastergroup 1.5 or 8448.0 kHz for 18 mastergroup L5)	-59.0 dBm				
	6	Jumbogroup pilot 2 (27,392.0 kHz)	-57.6 dBm				
	7	Jumbogroup pilot 3 (48,896.0 kHz)	-56.3 dBm				
	8	Multimastergroup pilot 1 (5888.0 kHz for 20 mastergroup L5E or 13,920.0 kHz for 22 mastergroup L5E)	-60.5 dBm				
	9	Multimastergroup pilot 2 (30,880.0 kHz)	-59.1 dBm				
	10	Multimastergroup pilot 3 (54,176.0 kHz)	-57.8 dBm				
0012 0013	Header information— TLT DIFF IN DB LINE DEVIATION IN DB/# SW SECTS LN PILOT OTHER 0 1 2 3 4 5 6						
0014	Allowable differences in levels of the line pilots and all other pilots and allowable deviation for the line by switch section are identified in columns as follows:						
	<u>Column</u>	<u>Meaning</u>					
	1	0.5 dB is the allowable difference between measured and nominal values for line pilots at the TLT point.					
	2	2.0 dB is the allowable difference between measured and nominal values for all pilots other than line pilots at the TLT point.					

TABLE C (Contd)

GFPASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE								
0022 (Contd)	<table border="0"> <thead> <tr> <th><u>Column</u></th> <th><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td>6 thru 16</td> <td>1 in columns 6 and 7 indicates that lines 501, 502, 503, and 504 are in service. 0 in columns 8 thru 16 indicates that lines 505 thru 522 are not in service. A 1 in any column indicates a 17 mastergroup L5 System, 2 is for an 18 mastergroup L5 System, 3 is for a 20 mastergroup L5E System, and 4 is for a 22 mastergroup L5E System.</td> </tr> <tr> <td>17</td> <td>1 indicates that there is 1 switching section in this line section to a maximum of 6. 0 indicates that there are no switching sections.</td> </tr> <tr> <td>18</td> <td>1 indicates that this line section is a multiplex section. 0 indicates that it is not.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	6 thru 16	1 in columns 6 and 7 indicates that lines 501, 502, 503, and 504 are in service. 0 in columns 8 thru 16 indicates that lines 505 thru 522 are not in service. A 1 in any column indicates a 17 mastergroup L5 System, 2 is for an 18 mastergroup L5 System, 3 is for a 20 mastergroup L5E System, and 4 is for a 22 mastergroup L5E System.	17	1 indicates that there is 1 switching section in this line section to a maximum of 6. 0 indicates that there are no switching sections.	18	1 indicates that this line section is a multiplex section. 0 indicates that it is not.	Engineering Line Drawings and Local Records
<u>Column</u>	<u>Meaning</u>									
6 thru 16	1 in columns 6 and 7 indicates that lines 501, 502, 503, and 504 are in service. 0 in columns 8 thru 16 indicates that lines 505 thru 522 are not in service. A 1 in any column indicates a 17 mastergroup L5 System, 2 is for an 18 mastergroup L5 System, 3 is for a 20 mastergroup L5E System, and 4 is for a 22 mastergroup L5E System.									
17	1 indicates that there is 1 switching section in this line section to a maximum of 6. 0 indicates that there are no switching sections.									
18	1 indicates that this line section is a multiplex section. 0 indicates that it is not.									
003 thru 0032	These lines contain the same type data as line 0022 for the other allowable combinations of E2 transmitting and receiving sections for this particular TSS (Fig. 3).	Local records								
0033 thru 0047	Performatted data base file.	---								

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0001  HEADING-----
0002          MULTIPLEX ASCII DATA BASE      (446 LINES)
0003          PR-50023-01-MUXASC ISSUE 4  9/12/78
0004  LIMITS:(MMGT)
0005      1      2      3      4      5      6      7
0006  -10.0  -10.0  -50.0  -25.0   0.0  -80.5  -59.1
0007  -57.8  -69.9  -68.8  -67.9  -65.0  -70.9   2.0
0008    2.0   1.0   1.0   1.0  -45.0   1.0   .0
0009    .0   .0   .0   .0   .0   .0   .0
0010
0011  LIMITS:(JMX)
0012      1      2      3      4      5      6      7
0013  -50.0  30.0  -30.1  -33.4   3.0   3.0  -93.0
0014    2.0  -93.0   4.0 -103.0  -93.0 -103.0  -88.0
0015    1.0  -77.0   4.0  -87.0   .0   .0   .0
0016    .0   .0   .0   .0   .0   .0   .0
0017
0018 -----
0019  MMGT MXCODE E2A RTE FUN OS TRTE RLIN SPEC      DESCRIPTION
0020 -----
0021    0    0    0    0    0    0    0    0    0    *
0022    0    0    0    0    0    0    0    0    0    *
0023    0    0    0    0    0    0    0    0    0    *
0024    0    0    0    0    0    0    0    0    0    *
0025    0    0    0    0    0    0    0    0    0    *
0026    0    0    0    0    0    0    0    0    0    *
0027    0    0    0    0    0    0    0    0    0    *
0028    0    0    0    0    0    0    0    0    0    *
0029    0    0    0    0    0    0    0    0    0    *
0030    0    0    0    0    0    0    0    0    0    *
0031    0    0    0    0    0    0    0    0    0    *
0032    0    0    0    0    0    0    0    0    0    *
0033    0    0    0    0    0    0    0    0    0    *
0034    0    0    0    0    0    0    0    0    0    *
0035    0    0    0    0    0    0    0    0    0    *
0036    0    0    0    0    0    0    0    0    0    *
0037    0    0    0    0    0    0    0    0    0    *
0038    0    0    0    0    0    0    0    0    0    *
0039    0    0    0    0    0    0    0    0    0    *
0040    0    0    0    0    0    0    0    0    0    *
0041    0    0    0    0    0    0    0    0    0    *
0042    0    0    0    0    0    0    0    0    0    *
0043    0    0    0    0    0    0    0    0    0    *
0044    0    0    0    0    0    0    0    0    0    *
0045    0    0    0    0    0    0    0    0    0    *
0046    0    0    0    0    0    0    0    0    0    *
0047    0    0    0    0    0    0    0    0    0    *

```

Fig. 6—Preformatted MUXASC Data Base File

BSPMUX T=00004 IS ON CRO0021 USING 00096 BLKS R=0320

0001 HEADING DRANESVILLE, VA.
 0002 MULTIPLEX ASCII DATA BASE (446 LINES)
 0003 PR-50023-01-MUXASC ISSUE 4 9/12/78

0004 LIMITS:(MMGT)
 0005 1 2 3 4 5 6 7
 0006 -10.0 -10.0 -50.0 -25.0 0.0 -60.5 -59.1
 0007 -57.8 -69.9 -68.8 -67.9 -65.0 -70.9 2.0
 0008 2.0 1.0 1.0 1.0 -45.0 1.0 .0
 0009 .0 .0 .0 .0 .0 .0 .0

0010
 0011 LIMITS:(JMX)
 0012 1 2 3 4 5 6 7
 0013 -50.0 30.0 -30.1 -33.4 3.0 3.0 -93.0
 0014 2.0 -93.0 4.0 -103.0 -93.0 -103.0 -88.0
 0015 1.0 -77.0 4.0 -87.0 .0 .0 .0
 0016 .0 .0 .0 .0 .0 .0 .0

MMGT	MXCODE	E2A	RTE	FUN	OS	TRTE	RLIN	SPEC	DESCRIPTION
0021	0	1125	25	1	3	0	1	509	0 * DSVLVA - MNRVMD JG 1 *
0022	0	1125	26	1	3	0	2	510	0 * MNRVMD - DSVLVA JG 1 *
0023	0	2125	25	2	3	0	1	509	0 * DSVLVA - MNRVMD JG 2 *
0024	0	2125	26	2	3	0	2	510	0 * MNRVMD - DSVLVA JG 2 *
0025	0	3125	25	3	3	0	1	509	0 * DSVLVA - MNRVMD JG 3 *
0026	0	3125	26	3	3	0	2	510	0 * MNRVMD - DSVLVA JG 3 *
0027	0	1121	21	1	3	0	1	503	0 * WAYNPA - PHLAPA JG 1 *
0028	0	1121	22	1	3	0	2	504	0 * PHLAPA - WAYNPA JG 1 *
0029	0	1025	23	4	3	0	1	513	0 * MNRVMD - PTTWPA JG 1 *
0030	0	1025	25	4	3	0	2	514	0 * PTTWPA - MNRVMD JG 1 *
0031	0	0	0	0	0	0	0	0	0 *
0032	0	0	0	0	0	0	0	0	0 *
0033	0	0	0	0	0	0	0	0	0 *
0034	0	0	0	0	0	0	0	0	0 *
0035	0	0	0	0	0	0	0	0	0 *
0036	0	0	0	0	0	0	0	0	0 *
0037	0	0	0	0	0	0	0	0	0 *
0038	0	0	0	0	0	0	0	0	0 *
0039	0	0	0	0	0	0	0	0	0 *
0040	0	0	0	0	0	0	0	0	0 *
0041	0	0	0	0	0	0	0	0	0 *
0042	0	0	0	0	0	0	0	0	0 *
0043	0	0	0	0	0	0	0	0	0 *
0044	0	0	0	0	0	0	0	0	0 *
0045	0	0	0	0	0	0	0	0	0 *
0046	0	0	0	0	0	0	0	0	0 *
0047	0	0	0	0	0	0	0	0	0 *

Fig. 7—Typical MUXASC Data Base File

TABLE D

MUXASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE																
0001	Heading (TSC station name and date of last modification to file).	Local provided.																
0002 0003	Identifying information for the file— MULTIPLX ASCII DATA BASE (446 LINES) PR-50023-01-MUXASC ISSUE 4 9/12/78	Preformatted Data Base File																
0004 0005	Header information and column identification— LIMITS: (MMGT) 1 2 3 4 5 6 7																	
0006	MMGT MG pilot information is identified in columns as follows: <table border="0"> <thead> <tr> <th><u>Column</u></th> <th><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>—10.0 dB is the figure representing maximum allowable loss in each half of the T/R bay calibration path allowed by the MUXPG program.</td> </tr> <tr> <td>2</td> <td>—10.0 dB is the figure representing the maximum loss in each half of the MGT bay calibration path allowed by the MUXPG program.</td> </tr> <tr> <td>3</td> <td>—50.0 dBm is the expected received level when calibrating on the T/R bayside of the MMGT</td> </tr> <tr> <td>4</td> <td>—25.0 dBm is the level of the signals which the MUXPG program causes to be transmitted through the MMGT.</td> </tr> <tr> <td>5</td> <td>0.0 is reserved for future use.</td> </tr> <tr> <td>6</td> <td>—60.5 dBm is the nominal MG pilot level for MMG1T at the TLT point in the T/R bay.</td> </tr> <tr> <td>7</td> <td>—59.1 dBm is the nominal MG pilot level for MMG2T at the TLT point in the T/R bay.</td> </tr> </tbody> </table>		<u>Column</u>	<u>Meaning</u>	1	—10.0 dB is the figure representing maximum allowable loss in each half of the T/R bay calibration path allowed by the MUXPG program.	2	—10.0 dB is the figure representing the maximum loss in each half of the MGT bay calibration path allowed by the MUXPG program.	3	—50.0 dBm is the expected received level when calibrating on the T/R bayside of the MMGT	4	—25.0 dBm is the level of the signals which the MUXPG program causes to be transmitted through the MMGT.	5	0.0 is reserved for future use.	6	—60.5 dBm is the nominal MG pilot level for MMG1T at the TLT point in the T/R bay.	7	—59.1 dBm is the nominal MG pilot level for MMG2T at the TLT point in the T/R bay.
<u>Column</u>	<u>Meaning</u>																	
1	—10.0 dB is the figure representing maximum allowable loss in each half of the T/R bay calibration path allowed by the MUXPG program.																	
2	—10.0 dB is the figure representing the maximum loss in each half of the MGT bay calibration path allowed by the MUXPG program.																	
3	—50.0 dBm is the expected received level when calibrating on the T/R bayside of the MMGT																	
4	—25.0 dBm is the level of the signals which the MUXPG program causes to be transmitted through the MMGT.																	
5	0.0 is reserved for future use.																	
6	—60.5 dBm is the nominal MG pilot level for MMG1T at the TLT point in the T/R bay.																	
7	—59.1 dBm is the nominal MG pilot level for MMG2T at the TLT point in the T/R bay.																	
0007	MMGT MG pilot information is identified in columns as follows: <table border="0"> <thead> <tr> <th><u>Column</u></th> <th><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>—57.8 dBm is the nominal MG pilot level for MMG3T at the TLT point in the T/R bay.</td> </tr> <tr> <td>2</td> <td>—69.9 dBm is the nominal MG pilot level for MMG1T at the RT point in the T/R bay.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	1	—57.8 dBm is the nominal MG pilot level for MMG3T at the TLT point in the T/R bay.	2	—69.9 dBm is the nominal MG pilot level for MMG1T at the RT point in the T/R bay.											
<u>Column</u>	<u>Meaning</u>																	
1	—57.8 dBm is the nominal MG pilot level for MMG3T at the TLT point in the T/R bay.																	
2	—69.9 dBm is the nominal MG pilot level for MMG1T at the RT point in the T/R bay.																	

TABLE D (Contd)

MUXASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE																
0007 (Contd)	<table border="0"> <thead> <tr> <th data-bbox="256 373 375 405"><u>Column</u></th> <th data-bbox="716 373 824 405"><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="305 457 321 489">3</td> <td data-bbox="435 436 1101 499">-68.8 dBm is the nominal MG pilot level for MMG2T at the RT point in the T/R bay.</td> </tr> <tr> <td data-bbox="305 552 321 583">4</td> <td data-bbox="435 531 1101 594">-67.9 dBm is the nominal MG pilot level for MMG3T at the RT point in the T/R bay.</td> </tr> <tr> <td data-bbox="305 646 321 678">5</td> <td data-bbox="435 625 1101 688">-65.0 dBm is the nominal MG pilot level at the TST TRMTG point in the MGT bay.</td> </tr> <tr> <td data-bbox="305 741 321 772">6</td> <td data-bbox="435 720 1101 783">-70.9 dBm is the nominal MG pilot level at the TST RCVG point in the MGT bay.</td> </tr> <tr> <td data-bbox="305 846 321 877">7</td> <td data-bbox="435 825 1101 909">2.0 dB is the MG pilot level deviation at the RT point in the T/R bay allowed by the MUXPG program.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	3	-68.8 dBm is the nominal MG pilot level for MMG2T at the RT point in the T/R bay.	4	-67.9 dBm is the nominal MG pilot level for MMG3T at the RT point in the T/R bay.	5	-65.0 dBm is the nominal MG pilot level at the TST TRMTG point in the MGT bay.	6	-70.9 dBm is the nominal MG pilot level at the TST RCVG point in the MGT bay.	7	2.0 dB is the MG pilot level deviation at the RT point in the T/R bay allowed by the MUXPG program.	Preformatted Data Base File				
	<u>Column</u>	<u>Meaning</u>																
	3	-68.8 dBm is the nominal MG pilot level for MMG2T at the RT point in the T/R bay.																
	4	-67.9 dBm is the nominal MG pilot level for MMG3T at the RT point in the T/R bay.																
	5	-65.0 dBm is the nominal MG pilot level at the TST TRMTG point in the MGT bay.																
	6	-70.9 dBm is the nominal MG pilot level at the TST RCVG point in the MGT bay.																
	7	2.0 dB is the MG pilot level deviation at the RT point in the T/R bay allowed by the MUXPG program.																
0008	<p data-bbox="248 940 1052 972">MMGT MG pilot information is identified in columns as follows:</p> <table border="0"> <thead> <tr> <th data-bbox="256 1003 375 1035"><u>Column</u></th> <th data-bbox="716 1003 824 1035"><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="305 1087 321 1119">1</td> <td data-bbox="435 1056 1052 1140">2.0 dB is the MG pilot level deviation at the TLT point in the T/R bay allowed by the MUXPG program.</td> </tr> <tr> <td data-bbox="305 1203 321 1234">2</td> <td data-bbox="435 1182 1052 1266">1.0 dB is the MG pilot level deviation at the TST TRMTG point in the MGT bay allowed by the MUXPG program.</td> </tr> <tr> <td data-bbox="305 1329 321 1360">3</td> <td data-bbox="435 1308 1052 1392">1.0 dB is the MG pilot level deviation at the TST RCVG point in the MGT bay allowed by the MUXPG program.</td> </tr> <tr> <td data-bbox="305 1455 321 1486">4</td> <td data-bbox="435 1434 1052 1497">1.0 dB is the signal level gain deviation for the MMGT allowed by the MUXPG program.</td> </tr> <tr> <td data-bbox="305 1560 321 1591">5</td> <td data-bbox="435 1539 1052 1602">-45.0 dBm is the nominal level for MMGT carrier supply signal.</td> </tr> <tr> <td data-bbox="305 1665 321 1696">6</td> <td data-bbox="435 1644 1052 1707">1.0 dB is the level deviation for MMGT carrier supply signals allowed by the MUXPG program.</td> </tr> <tr> <td data-bbox="305 1770 321 1801">7</td> <td data-bbox="435 1749 1052 1770">0.0 is reserved for future use.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	1	2.0 dB is the MG pilot level deviation at the TLT point in the T/R bay allowed by the MUXPG program.	2	1.0 dB is the MG pilot level deviation at the TST TRMTG point in the MGT bay allowed by the MUXPG program.	3	1.0 dB is the MG pilot level deviation at the TST RCVG point in the MGT bay allowed by the MUXPG program.	4	1.0 dB is the signal level gain deviation for the MMGT allowed by the MUXPG program.	5	-45.0 dBm is the nominal level for MMGT carrier supply signal.	6	1.0 dB is the level deviation for MMGT carrier supply signals allowed by the MUXPG program.	7	0.0 is reserved for future use.	
	<u>Column</u>	<u>Meaning</u>																
	1	2.0 dB is the MG pilot level deviation at the TLT point in the T/R bay allowed by the MUXPG program.																
	2	1.0 dB is the MG pilot level deviation at the TST TRMTG point in the MGT bay allowed by the MUXPG program.																
	3	1.0 dB is the MG pilot level deviation at the TST RCVG point in the MGT bay allowed by the MUXPG program.																
	4	1.0 dB is the signal level gain deviation for the MMGT allowed by the MUXPG program.																
	5	-45.0 dBm is the nominal level for MMGT carrier supply signal.																
6	1.0 dB is the level deviation for MMGT carrier supply signals allowed by the MUXPG program.																	
7	0.0 is reserved for future use.																	

TABLE D (Contd)

MUXASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE																
0009	All 0.0s are reserved for future use.																	
0010 001 002	Header information and column identification— LIMITS: (JMX) 1 2 3 4 5 6 7																	
0013	<p>JMX pilot information is identified in columns as follows:</p> <table border="1"> <thead> <tr> <th data-bbox="391 625 505 655"><u>Column</u></th> <th data-bbox="846 625 959 655"><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="431 688 448 718">1</td> <td data-bbox="565 674 1166 737">—50.0 dBm is the level of the calibration signal expected by the MUXPG program.</td> </tr> <tr> <td data-bbox="431 783 448 812">2</td> <td data-bbox="565 768 1219 831">30.0 dB is the maximum loss in the calibration path allowed by the MUXPG program.</td> </tr> <tr> <td data-bbox="431 877 448 907">3</td> <td data-bbox="565 863 1166 926">—30.1 dBm is the nominal carrier supply signal (CARRIER A/B) level for JG1 and JG2.</td> </tr> <tr> <td data-bbox="431 972 448 1001">4</td> <td data-bbox="565 957 1166 1020">—33.4 dBm is the nominal carrier supply signal (CARRIER A/B) level for JG3.</td> </tr> <tr> <td data-bbox="431 1087 448 1117">5</td> <td data-bbox="565 1052 1149 1146">3.0 dB is the maximum level deviation for JG1 and JG2 carrier supply signals allowed by the MUXPG program.</td> </tr> <tr> <td data-bbox="431 1192 448 1222">6</td> <td data-bbox="565 1178 1219 1241">3.0 dB is the maximum level deviation for JG3 carrier supply signal allowed by the MUXPG program.</td> </tr> <tr> <td data-bbox="431 1266 448 1295">7</td> <td data-bbox="565 1272 1195 1302">—93.0 dBm is the nominal JG pilot level at XMIT IN.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	1	—50.0 dBm is the level of the calibration signal expected by the MUXPG program.	2	30.0 dB is the maximum loss in the calibration path allowed by the MUXPG program.	3	—30.1 dBm is the nominal carrier supply signal (CARRIER A/B) level for JG1 and JG2.	4	—33.4 dBm is the nominal carrier supply signal (CARRIER A/B) level for JG3.	5	3.0 dB is the maximum level deviation for JG1 and JG2 carrier supply signals allowed by the MUXPG program.	6	3.0 dB is the maximum level deviation for JG3 carrier supply signal allowed by the MUXPG program.	7	—93.0 dBm is the nominal JG pilot level at XMIT IN.	Preformatted Data Base File
<u>Column</u>	<u>Meaning</u>																	
1	—50.0 dBm is the level of the calibration signal expected by the MUXPG program.																	
2	30.0 dB is the maximum loss in the calibration path allowed by the MUXPG program.																	
3	—30.1 dBm is the nominal carrier supply signal (CARRIER A/B) level for JG1 and JG2.																	
4	—33.4 dBm is the nominal carrier supply signal (CARRIER A/B) level for JG3.																	
5	3.0 dB is the maximum level deviation for JG1 and JG2 carrier supply signals allowed by the MUXPG program.																	
6	3.0 dB is the maximum level deviation for JG3 carrier supply signal allowed by the MUXPG program.																	
7	—93.0 dBm is the nominal JG pilot level at XMIT IN.																	
0014	<p>JMX pilot information is identified in columns as follows:</p> <table border="1"> <thead> <tr> <th data-bbox="391 1394 505 1423"><u>Column</u></th> <th data-bbox="846 1394 959 1423"><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="431 1470 448 1499">1</td> <td data-bbox="565 1455 1203 1518">2.0 dB is the maximum allowable JG pilot level deviation at XMIT IN.</td> </tr> <tr> <td data-bbox="431 1545 448 1575">2</td> <td data-bbox="565 1551 1203 1581">—93.0 dBm is the nominal MG pilot level at XMIT IN.</td> </tr> <tr> <td data-bbox="431 1629 448 1659">3</td> <td data-bbox="565 1614 1166 1677">4.0 dB is the maximum allowable MG pilot level deviation at XMIT IN.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	1	2.0 dB is the maximum allowable JG pilot level deviation at XMIT IN.	2	—93.0 dBm is the nominal MG pilot level at XMIT IN.	3	4.0 dB is the maximum allowable MG pilot level deviation at XMIT IN.									
<u>Column</u>	<u>Meaning</u>																	
1	2.0 dB is the maximum allowable JG pilot level deviation at XMIT IN.																	
2	—93.0 dBm is the nominal MG pilot level at XMIT IN.																	
3	4.0 dB is the maximum allowable MG pilot level deviation at XMIT IN.																	

TABLE D (Contd)

MUXASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE												
0014 (Contd)	<table border="0"> <thead> <tr> <th data-bbox="237 380 362 411"><u>Column</u></th> <th data-bbox="699 380 813 411"><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="289 443 305 474">4</td> <td data-bbox="423 426 1052 485">-103.0 dBm is the threshold level for all pilots at XMIT IN.</td> </tr> <tr> <td data-bbox="289 537 305 569">5</td> <td data-bbox="423 520 1040 579">-93.0 dBm is the minimum level for all pilots at XMIT OUT A/B.</td> </tr> <tr> <td data-bbox="289 632 305 663">6</td> <td data-bbox="423 615 1052 674">-103.0 dBm is the minimum level for all pilots at REC IN A/B.</td> </tr> <tr> <td data-bbox="289 726 305 758">7</td> <td data-bbox="423 709 1040 768">-88.0 dBm is the minimum level for all pilots at REG IN A/B.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	4	-103.0 dBm is the threshold level for all pilots at XMIT IN.	5	-93.0 dBm is the minimum level for all pilots at XMIT OUT A/B.	6	-103.0 dBm is the minimum level for all pilots at REC IN A/B.	7	-88.0 dBm is the minimum level for all pilots at REG IN A/B.			
<u>Column</u>	<u>Meaning</u>													
4	-103.0 dBm is the threshold level for all pilots at XMIT IN.													
5	-93.0 dBm is the minimum level for all pilots at XMIT OUT A/B.													
6	-103.0 dBm is the minimum level for all pilots at REC IN A/B.													
7	-88.0 dBm is the minimum level for all pilots at REG IN A/B.													
0015	<p>JMX pilot information is identified in columns as follows:</p> <table border="0"> <thead> <tr> <th data-bbox="237 863 362 894"><u>Column</u></th> <th data-bbox="699 863 813 894"><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="289 947 305 978">1</td> <td data-bbox="423 909 1081 1003">1.0 dB is the maximum level difference on all comparison measurements (any A to B comparisons) allowed by the MUXPG program.</td> </tr> <tr> <td data-bbox="289 1041 305 1073">2</td> <td data-bbox="423 1035 987 1094">-77.0 dBm is the nominal level for all pilots REG OUT A/B.</td> </tr> <tr> <td data-bbox="289 1136 305 1167">3</td> <td data-bbox="423 1129 1065 1188">4.0 dB is the maximum allowable level deviation at REG OUT A/B.</td> </tr> <tr> <td data-bbox="289 1230 305 1262">4</td> <td data-bbox="423 1224 1040 1283">-87.0 dBm is the minimum level for all pilots at REG OUT A/B.</td> </tr> <tr> <td data-bbox="237 1325 362 1356">5, 6, and 7</td> <td data-bbox="423 1318 751 1350">0.0s should not be altered.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	1	1.0 dB is the maximum level difference on all comparison measurements (any A to B comparisons) allowed by the MUXPG program.	2	-77.0 dBm is the nominal level for all pilots REG OUT A/B.	3	4.0 dB is the maximum allowable level deviation at REG OUT A/B.	4	-87.0 dBm is the minimum level for all pilots at REG OUT A/B.	5, 6, and 7	0.0s should not be altered.	Preformatted Data Base File
<u>Column</u>	<u>Meaning</u>													
1	1.0 dB is the maximum level difference on all comparison measurements (any A to B comparisons) allowed by the MUXPG program.													
2	-77.0 dBm is the nominal level for all pilots REG OUT A/B.													
3	4.0 dB is the maximum allowable level deviation at REG OUT A/B.													
4	-87.0 dBm is the minimum level for all pilots at REG OUT A/B.													
5, 6, and 7	0.0s should not be altered.													
0016	All 0.0s are reserved for future use.													
0018 0019 0020	<p>Header</p> <p>-----</p> <p>MMGT MXCODE E2A RTE FUN OS TRTE RLIN SPEC</p> <p>-----</p> <p>DESCRIPTION</p>													

TABLE D (Contd)

MUXASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE								
0021 (Contd)	<table border="0"> <thead> <tr> <th data-bbox="240 390 363 422"><u>Column</u></th> <th data-bbox="704 390 812 422"><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="293 470 315 501">8</td> <td data-bbox="423 436 1052 531">509 is the L5 line number of the receiving line for the JG/MMG section (presently used only for MMGT measurements).</td> </tr> <tr> <td data-bbox="293 625 315 657">9</td> <td data-bbox="423 562 1081 688">0 is from preformatted data base. A 1 indicates that the port (port 3 of the 1 × 4 line level switch in the MGT bay) is wired for carrier access; a 0 indicates that it is not.</td> </tr> <tr> <td data-bbox="282 751 315 783">10</td> <td data-bbox="423 720 1073 814">The local identification for the multiplex section is *DSVLVA — MNRVMD JG1*. Twenty-two spaces are provided between the asterisks for this purpose.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	8	509 is the L5 line number of the receiving line for the JG/MMG section (presently used only for MMGT measurements).	9	0 is from preformatted data base. A 1 indicates that the port (port 3 of the 1 × 4 line level switch in the MGT bay) is wired for carrier access; a 0 indicates that it is not.	10	The local identification for the multiplex section is *DSVLVA — MNRVMD JG1*. Twenty-two spaces are provided between the asterisks for this purpose.	Local records
<u>Column</u>	<u>Meaning</u>									
8	509 is the L5 line number of the receiving line for the JG/MMG section (presently used only for MMGT measurements).									
9	0 is from preformatted data base. A 1 indicates that the port (port 3 of the 1 × 4 line level switch in the MGT bay) is wired for carrier access; a 0 indicates that it is not.									
10	The local identification for the multiplex section is *DSVLVA — MNRVMD JG1*. Twenty-two spaces are provided between the asterisks for this purpose.									
0022 thru 0030	Access information for the remaining multiplex sections in the L5 line (Fig. 3).									
0031 thru 0047	Preformatted data base file									

STATIONS		MMGT	MXCODE	A							B						
A	B			E2A	RTE	FUN	OS	TRTE	RLIN	SPEC	E2A	RTE	FUN	OS	TRTE	RLIN	SPEC

Fig. 8—MUXASC Data Base File Work Sheet

STATIONS		MMGT	MXCODE	A							B						
A	B			E24	RTE	FUN	OS	TRTE	RLIN	SPEC	E24	RTE	FUN	OS	TRTE	RLIN	SPEC
DSVLVA	MNRVMD		1125	25	1	3	0	1	509		26	1	3	0	2	510	
			2125		2	3	0	1	509			2	3	0	2	510	
			3125		3	3	0	1	509			3	3	0	2	510	
WAINPA	PHLAPA		1121	21	1	3	0	1	503		22	1	3	0	2	504	
MNRVMD	PTTWPA		1225	25	4	3	0	2	514		23	4	3	0	1	513	

Fig. 9—MUXASC Data Base File Work Sheet Example

```

0001 HEADING: -----
0002 L4 PILOT ASCII DATA BASE
0003 PR-50023-01-L4PASC ISSUE 2 7/17/78
0004 TLT DIFF. IN DB LINE DEVIATION IN DB CABLE
0005 LN PILOT OTHER 1 2 3 4 5 6 LEN
0006 .5 2.0 0.8 1.2 1.6 2.0 2.6 3.2 0.00
0007
0008 ALLOWABLE COMBINATIONS OF TRANS & REC E2 ADDRESSES &
0009 SWITCH ACCESS ROUTE #S. ENTER 1 IF LINES ARE ODD &
0010 0 IF EVEN. ENTER 1 FOR LINES PRESENT OR 0 IF NOT.
0011
0012 XM XM RC RC E 401 03 05 07 09 11 13 15 17 19 #SW RCV
0013 E2 RT E2 RT 0 402 04 06 08 10 12 14 16 18 20 SEC HYB
0014 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0016 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0017 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0018 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0019 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0020 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0021 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0022 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0023 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0024 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0025 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0026 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0027 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0028 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0029 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0030 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0031 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0032 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0033 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0034 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0035 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0036 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0037 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0038 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0039 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0040 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0041 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0042 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0043 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0044 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0045 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0046 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0047 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

```

Fig. 10—Preformatted L4 PASC Data Base File

L4PASC T=00003 IS ON CRO0002 USING 00005 BLKS R=0054

```

0001 HEADING: DRANESVILLE,VA.
0002 L4 PILOT ASCII DATA BASE
0003 PR-50023-01-L4PASC ISSUE 2 7/17/78
0004 TLT DIFF. IN DB LINE DEVIATION IN DB CABLE
0005 LN PILOT OTHER 1 2 3 4 5 6 LEN
0006 .5 2.0 0.8 1.2 1.6 2.0 2.6 3.2 9.00
0007
0008 ALLOWABLE COMBINATIONS OF TRANS & REC E2 ADDRESSES &
0009 SWITCH ACCESS ROUTE #S. ENTER 1 IF LINES ARE ODD &
0010 0 IF EVEN. ENTER 1 FOR LINES PRESENT OR 0 IF NOT.
0011
0012 XM XM RC RC E 401 03 05 07 09 11 13 15 17 19 #SW RCV
0013 E2 RT E2 RT 0 402 04 06 08 10 12 14 16 18 20 SEC HYB
0014 12 2 14 1 1 1 1 1 1 1 0 0 0 0 0 1 0
0015 12 1 11 2 0 1 1 1 1 1 0 0 0 0 0 1 0
0016 14 2 16 1 1 1 1 1 1 1 0 0 0 0 0 1 0
0017 16 1 14 2 0 1 1 1 1 1 0 0 0 0 0 1 0
0018 16 1 11 2 0 1 1 1 1 1 0 0 0 0 0 3 0
0019 11 2 12 1 1 1 1 1 1 1 0 0 0 0 0 1 0
0020 11 2 16 1 1 1 1 1 1 1 0 0 0 0 0 3 0
0021 14 1 12 2 0 1 1 1 1 1 0 0 0 0 0 1 0
0022 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0023 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0024 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0025 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0026 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0027 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0028 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0029 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0030 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0031 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0032 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0033 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0034 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0035 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0036 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0037 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0038 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0039 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0040 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0041 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0042 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0043 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0044 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0045 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0046 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0047 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
    
```

Fig. 11—Typical L4PASC Data Base File

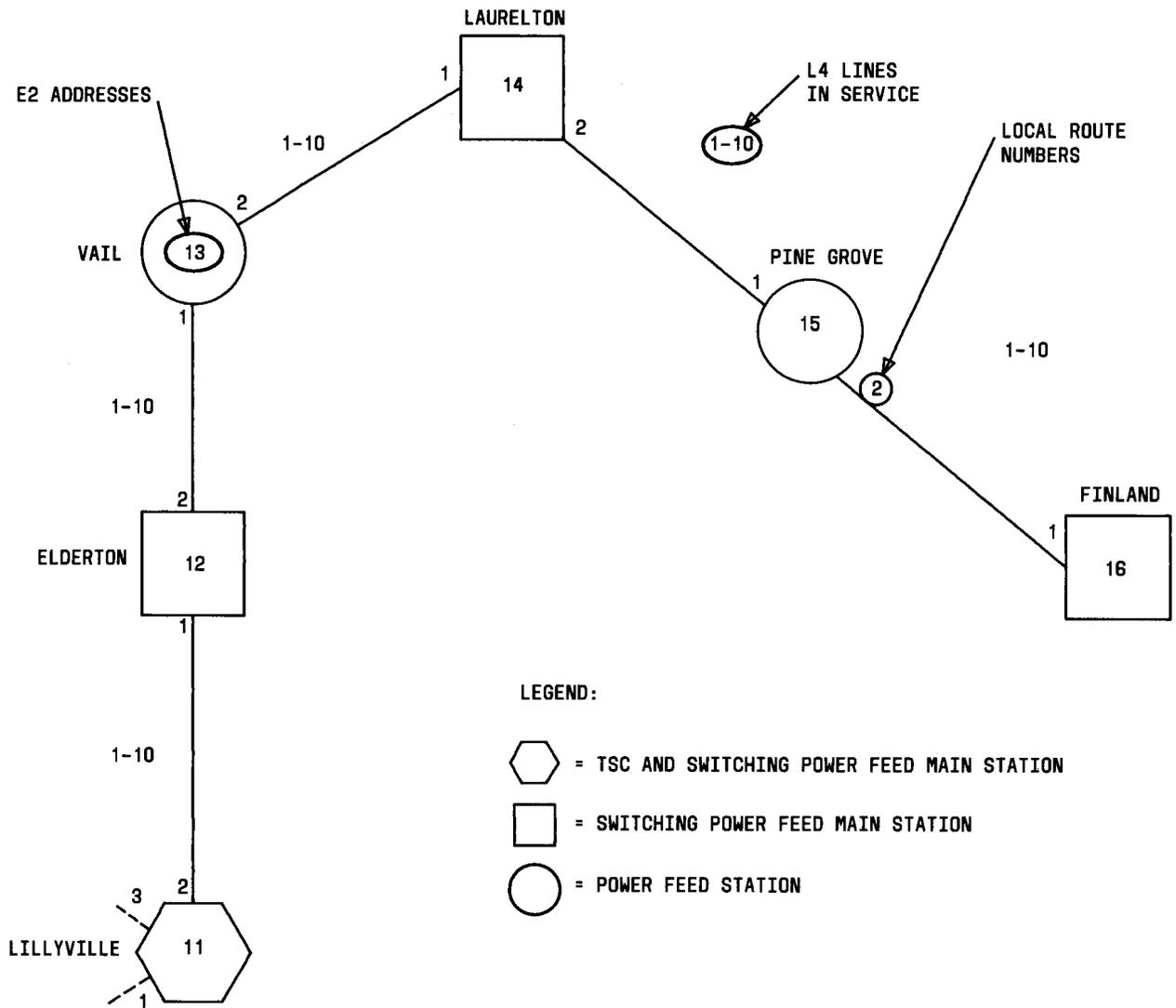


Fig. 12—Typical L5/L5E Line With L4 Lines in Service From Which L4PASC Data Base File in Fig. 11 is Developed

TABLE E

L4PASC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE																										
0001	Heading (TSC station name and date of last modification to file).	Locally provided																										
0002 0003	Identifying information for the file—L4 PILOT ASCII DATA BASE PR-50023-01-L4PASC ISSUE 2 7/17/78	Preformatted Data Base File																										
0004 0005	Header information— TLT DIFF I DB LINE DEVIATION IN DB CABLE LN PILOT OTHER 1 2 3 4 5 6 LEN																											
0006	<p>Allowable differences in levels of the line pilots and all other pilots and allowable deviation for the line by switch section are identified in columns as follows:</p> <table border="0"> <thead> <tr> <th data-bbox="253 764 367 793"><u>Column</u></th> <th data-bbox="711 764 818 793"><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="297 842 310 871">1</td> <td data-bbox="431 827 1081 890">0.5 dB is the allowable difference between measured and nominal values for line pilots at the TLT point.</td> </tr> <tr> <td data-bbox="297 953 310 982">2</td> <td data-bbox="431 921 1081 1016">2.0 dB is the allowable difference between measured and nominal values for all pilots other than line pilots at the TLT point.</td> </tr> <tr> <td data-bbox="253 1079 358 1108">3 thru 8</td> <td data-bbox="431 1050 1089 1144">Allowable deviation of line loss in dB according to number of switching sections from a nominal line as shown below:</td> </tr> <tr> <td></td> <td data-bbox="431 1171 1097 1392"> <table border="0"> <thead> <tr> <th data-bbox="431 1171 662 1201"><u>Switching Section</u></th> <th data-bbox="769 1171 1097 1201"><u>Allowable Deviation (dB)</u></th> </tr> </thead> <tbody> <tr><td data-bbox="537 1205 550 1234">1</td><td data-bbox="906 1205 943 1234">0.8</td></tr> <tr><td data-bbox="537 1236 550 1266">2</td><td data-bbox="906 1236 943 1266">1.2</td></tr> <tr><td data-bbox="537 1268 550 1297">3</td><td data-bbox="906 1268 943 1297">1.6</td></tr> <tr><td data-bbox="537 1299 550 1329">4</td><td data-bbox="906 1299 943 1329">2.0</td></tr> <tr><td data-bbox="537 1331 550 1360">5</td><td data-bbox="906 1331 943 1360">2.6</td></tr> <tr><td data-bbox="537 1362 550 1392">6</td><td data-bbox="906 1362 943 1392">3.2</td></tr> </tbody> </table> </td> </tr> <tr> <td data-bbox="240 1440 253 1470">9</td> <td data-bbox="431 1423 1062 1486">9 feet is the cable length between the L5 SAN and the L4 access point.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	1	0.5 dB is the allowable difference between measured and nominal values for line pilots at the TLT point.	2	2.0 dB is the allowable difference between measured and nominal values for all pilots other than line pilots at the TLT point.	3 thru 8	Allowable deviation of line loss in dB according to number of switching sections from a nominal line as shown below:		<table border="0"> <thead> <tr> <th data-bbox="431 1171 662 1201"><u>Switching Section</u></th> <th data-bbox="769 1171 1097 1201"><u>Allowable Deviation (dB)</u></th> </tr> </thead> <tbody> <tr><td data-bbox="537 1205 550 1234">1</td><td data-bbox="906 1205 943 1234">0.8</td></tr> <tr><td data-bbox="537 1236 550 1266">2</td><td data-bbox="906 1236 943 1266">1.2</td></tr> <tr><td data-bbox="537 1268 550 1297">3</td><td data-bbox="906 1268 943 1297">1.6</td></tr> <tr><td data-bbox="537 1299 550 1329">4</td><td data-bbox="906 1299 943 1329">2.0</td></tr> <tr><td data-bbox="537 1331 550 1360">5</td><td data-bbox="906 1331 943 1360">2.6</td></tr> <tr><td data-bbox="537 1362 550 1392">6</td><td data-bbox="906 1362 943 1392">3.2</td></tr> </tbody> </table>	<u>Switching Section</u>	<u>Allowable Deviation (dB)</u>	1	0.8	2	1.2	3	1.6	4	2.0	5	2.6	6	3.2	9	9 feet is the cable length between the L5 SAN and the L4 access point.	<p>Columns 1-8 Pre-formatted Data Base File</p> <p>Column 9—Local Records</p>
<u>Column</u>	<u>Meaning</u>																											
1	0.5 dB is the allowable difference between measured and nominal values for line pilots at the TLT point.																											
2	2.0 dB is the allowable difference between measured and nominal values for all pilots other than line pilots at the TLT point.																											
3 thru 8	Allowable deviation of line loss in dB according to number of switching sections from a nominal line as shown below:																											
	<table border="0"> <thead> <tr> <th data-bbox="431 1171 662 1201"><u>Switching Section</u></th> <th data-bbox="769 1171 1097 1201"><u>Allowable Deviation (dB)</u></th> </tr> </thead> <tbody> <tr><td data-bbox="537 1205 550 1234">1</td><td data-bbox="906 1205 943 1234">0.8</td></tr> <tr><td data-bbox="537 1236 550 1266">2</td><td data-bbox="906 1236 943 1266">1.2</td></tr> <tr><td data-bbox="537 1268 550 1297">3</td><td data-bbox="906 1268 943 1297">1.6</td></tr> <tr><td data-bbox="537 1299 550 1329">4</td><td data-bbox="906 1299 943 1329">2.0</td></tr> <tr><td data-bbox="537 1331 550 1360">5</td><td data-bbox="906 1331 943 1360">2.6</td></tr> <tr><td data-bbox="537 1362 550 1392">6</td><td data-bbox="906 1362 943 1392">3.2</td></tr> </tbody> </table>	<u>Switching Section</u>	<u>Allowable Deviation (dB)</u>	1	0.8	2	1.2	3	1.6	4	2.0	5	2.6	6	3.2													
<u>Switching Section</u>	<u>Allowable Deviation (dB)</u>																											
1	0.8																											
2	1.2																											
3	1.6																											
4	2.0																											
5	2.6																											
6	3.2																											
9	9 feet is the cable length between the L5 SAN and the L4 access point.																											
0008 0009 0010	Header information— ALLOWABLE COMBINATIONS OF TRANS & REC E2 ADDRESS & SWITCH ACCESS ROUTE #S. ENTER 1 IF LINES ARE ODD & 0 IF EVEN. ENTER 1 FOR LINES PRESENT OR 0 IF NOT.	Preformatted Data Base File																										
0012 0013	Header information— XM XM RC RC E 401 03 05 07 09 11 13 15 17 19 #SW RCV E2 RT E2 RT O 402 04 06 08 10 12 14 16 18 20 SEC HYB																											

TABLE E (Contd)

L4PSC DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENTS	SOURCE																		
0014	Allowable combinations of E2 addresses, SAN numbers, lines equipped, number of switching sections, and hybrid information are identified in columns as follows:	Local Records																		
0014 Contd	<table border="1"> <thead> <tr> <th data-bbox="362 489 508 531"><u>Column</u></th> <th data-bbox="508 489 1271 531"><u>Meaning</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="362 531 508 636">1</td> <td data-bbox="508 531 1271 636">12 is the E2 address at the transmit end of an L4 line section.</td> </tr> <tr> <td data-bbox="362 636 508 741">2</td> <td data-bbox="508 636 1271 741">2 is the local route number assigned to the TSS hardware to access the TLT point at the transmitting end of an L4 line section.</td> </tr> <tr> <td data-bbox="362 741 508 846">3</td> <td data-bbox="508 741 1271 846">14 is the E2 address of the receiving end of an L4 line section.</td> </tr> <tr> <td data-bbox="362 846 508 951">4</td> <td data-bbox="508 846 1271 951">1 is the local route number assigned to the TSS hardware to access the RLT point at the receiving end of an L4 line section.</td> </tr> <tr> <td data-bbox="362 951 508 1056">5</td> <td data-bbox="508 951 1271 1056">1 indicates that data in this line pertains to an odd-numbered line. 0 indicates line is even numbered.</td> </tr> <tr> <td data-bbox="362 1056 508 1161">6 thru 15</td> <td data-bbox="508 1056 1271 1161">1 in columns 6, 7, 8, 9, and 10 indicates that lines 401 thru 410 are in service. 0 indicates that lines 411 thru 420 are not in service.</td> </tr> <tr> <td data-bbox="362 1161 508 1266">16</td> <td data-bbox="508 1161 1271 1266">1 indicates that there is 1 switching section in this line section (maximum of 6)</td> </tr> <tr> <td data-bbox="362 1266 508 1476">17</td> <td data-bbox="508 1266 1271 1476">1 indicates that a TSS-CTMS hybrid is present; 0 indicates that it is not present. If present, the hybrid loss is subtracted from the calibration loss since there is no CMTS hybrid in the L4 measurement paths.</td> </tr> </tbody> </table>	<u>Column</u>	<u>Meaning</u>	1	12 is the E2 address at the transmit end of an L4 line section.	2	2 is the local route number assigned to the TSS hardware to access the TLT point at the transmitting end of an L4 line section.	3	14 is the E2 address of the receiving end of an L4 line section.	4	1 is the local route number assigned to the TSS hardware to access the RLT point at the receiving end of an L4 line section.	5	1 indicates that data in this line pertains to an odd-numbered line. 0 indicates line is even numbered.	6 thru 15	1 in columns 6, 7, 8, 9, and 10 indicates that lines 401 thru 410 are in service. 0 indicates that lines 411 thru 420 are not in service.	16	1 indicates that there is 1 switching section in this line section (maximum of 6)	17	1 indicates that a TSS-CTMS hybrid is present; 0 indicates that it is not present. If present, the hybrid loss is subtracted from the calibration loss since there is no CMTS hybrid in the L4 measurement paths.	Local records
<u>Column</u>	<u>Meaning</u>																			
1	12 is the E2 address at the transmit end of an L4 line section.																			
2	2 is the local route number assigned to the TSS hardware to access the TLT point at the transmitting end of an L4 line section.																			
3	14 is the E2 address of the receiving end of an L4 line section.																			
4	1 is the local route number assigned to the TSS hardware to access the RLT point at the receiving end of an L4 line section.																			
5	1 indicates that data in this line pertains to an odd-numbered line. 0 indicates line is even numbered.																			
6 thru 15	1 in columns 6, 7, 8, 9, and 10 indicates that lines 401 thru 410 are in service. 0 indicates that lines 411 thru 420 are not in service.																			
16	1 indicates that there is 1 switching section in this line section (maximum of 6)																			
17	1 indicates that a TSS-CTMS hybrid is present; 0 indicates that it is not present. If present, the hybrid loss is subtracted from the calibration loss since there is no CMTS hybrid in the L4 measurement paths.																			
0015 thru 0021	These lines contain similar data as line 0014 for the other allowable combinations of L4 E2 transmitting and receiving sections for this particular TSS (Fig. 11).	Local records																		
0022 thru 0047	Preformatted data base file.	---																		

```
0001 ** HEADING: -----
0002 **
0003 **          TIMTBL ASCII DATA BASE
0004 **          PR-50023-01-TIMTBL ISSUE 1 11/11/77
0005 **
0006 ** COMMENTS IN THE TIMTBL FILE MUST CONTAIN
0007 ** THE ASCII CHARACTERS ** IN COLUMNS 1 AND 2.
0008 ** THE FOLLOWING ARE TWO EXAMPLES:
0009 **
0010 ** SCHEDULE FAULT TO RUN EVERY MONDAY AT 12:00.
0011 ** THE OUTPUT FROM FAULT WILL GO THE THE LINE PRINTER.
0012 **
0013 ** FAULT,MONDAY,12,00,6
0014 ** THIS IS AN EXAMPLE
0015 ** REG,3,10
0016 ** 2660
0017 ** 501,509
0018 ** ALL
0019 ** /E
0020 **
0021 ** A /E MUST SEPARATE DIFFERENT PROGRAMS
0022 **
0023 ** SCHEDULE PILOT ON THE 15TH OF EVERY MONTH AT 1:30.
0024 ** THE OUTPUT WILL GO TO THE SYSTEM CONSOLE.
0025 **
0026 ** PILOT,15,1,30,1
0027 ** THIS IS AN EXAMPLE
0028 ** YES,NO
0029 ** SG
0030 ** ONE
0031 ** 12,14
0032 ** 501,509
0033 ** /E
0034 **
0035 ** A /E AT THE END OF EVERY SECTION
```

Fig. 13—Preformatted TIMTBL Data Base File

```

0001 ** HEADING: -----
0002 **
0003 **          TIMTBL ASCII DATA BASE
0004 **          PR-50023-01-TIMTBL ISSUE 1 11/11/77
0005 **
0006 ** COMMENTS IN THE TIMTBL FILE MUST CONTAIN
0007 ** THE ASCII CHARACTERS ** IN COLUMNS 1 AND 2.
0008 ** THE FOLLOWING ARE TWO EXAMPLES:
0009 **
0010 ** SCHEDULE FAULT TO RUN EVERY MONDAY AT 12:00.
0011 ** THE OUTPUT FROM FAULT WILL GO THE THE LINE PRINTER.
0012 **
0013 ** FAULT,MONDAY,12,00,6
0014 ** THIS IS AN EXAMPLE
0015 ** REG,3,10
0016 ** 2660
0017 ** 501,509
0018 ** ALL
0019 ** /E
0020 **
0021 ** A /E MUST SEPARATE DIFFERENT PROGRAMS
0022 **
0023 ** SCHEDULE PILOT ON THE 15TH OF EVERY MONTH AT 1:30.
0024 ** THE OUTPUT WILL GO TO THE SYSTEM CONSOLE.
0025 **
0026 ** PILOT,15,1,30,1
0027 ** THIS IS AN EXAMPLE
0028 ** YES,NO
0029 ** SG
0030 ** ONE
0031 ** 12,14
0032 ** 501,509
0033 ** /E
0034 **
0035 ** A /E AT THE END OF EVERY SECTION
0036 FAULT,16,10,30,6
0037 AIRMONT 11/77
0038 AL,NO,1
0039 33
0040 AL
0041 AL
0042 /E
0043 /E
0044 PILOT,EV,11,00,1
0045 AIRMONT 11/77
0046 YE,YE
0047 JG
0048 SW
0049 /E
0050 /E
0051 TDIAG,EV,11,30,1
0052 AL,YE
0053 /E
0054 /E
0055 ETEST,FR,11,30,1
0056 AL,YE
0057 RE
0058 NO
0059 13,AN,,3
0060 /E
0061 /E

```

Fig. 14—Typical TIMTBL Data Base File

TABLE F

PROMPTERS FOR APPLICATION PROGRAMS SCHEDULED BY TIMTBL

APPLICATION PROGRAMS	PROMPTERS
FAULT	DESCRIPTION — ? PRINT (ALL, REG+ALARMS),PLOT (NO OR 1-4), # TO AVERAGE? LINE CODE (ALL OR SPECIFY #) ? LINE #(S): FIRST (OR ALL,ODD,EVEN), LAST ? MANHOLE #(S): FIRST (OR ALL), LAST ?
PILOT	DESCRIPTION — ? PRINT ALL, MEASURE AT RLT? PILOTS (LINE,JG,MMG, MG OR SG)? SECTIONS (MUX, SWITCH OR ONE)? E2 ADDRESS: TLT, RLT? LINE #(S): FIRST (OR ALL), LAST-?
L4PIL	DESCRIPTION — ? PRINT ALL, MEAS. AT TLT ONLY (YES OR NO)? PILOTS: LINE OR +MG OR +SG-? SECTIONS: SWITCHING OR SINGLE-? E2 ADDRESS: TLT, RLT-? LINES: FIRST, LAST-?
MUXPG	DESCRIPTION — ? MXCODE, E2A, OPTION?

TABLE G

TIMTBL DATA BASE FILE CONTENT DESCRIPTION

LINE NO.	CONTENT
0001 thru 0035	Application program scheduling examples (preformatted data base file).
0036 thru 0042	FAULT is scheduled to run on the 16th of each month at 10:30 a.m. (10,30). The output is to be printed on the line printer (6). The schedule was established at Airmont in November 1977. All repeater measurement results will be printed but not plotted, and only one measurement will be made of each FLO tone. One line code (33) will be checked. All lines and the repeater in all manholes of the lines of line code 33 will be measured. The /E of line 0042 terminates the program.
0043	This /E separates individual program schedules.
0044 thru 0049	PILOT is scheduled to run everyday at 11:00 a.m., and the output will be printed on the system console (1). This program schedule was also made at Airmont in November 1977. All measurements are to be printed and will be made at the RLT test joint in addition to TLT. Line and JG pilots of all switching sections in the GFPASC data base file will be measured. The /E of line 0049 terminates the program.
0050	This /E separates individual program schedules.
0051 thru 0053	TDIAG is scheduled to run everyday at 11:30 a.m., and the output will be printed on the system console (1). The check will be made of all stations, and the program will continue even if an error is encountered. The /E of line 0053 terminates the program.
0054	This /E separates individual program schedules.
0055 thru 0060	ETEST is scheduled to run every Friday at 11:30 a.m., and the output will be printed on the system console. Note that TDIAG, since it runs everyday, is also scheduled to start at 11:30 a.m. TDIAG will start at 11:30 and run to completion, then ETEST will begin execution. The program will run in the quick-reply mode and will expect to test a specific E2 address. The program will perform a remote (RE) test and no instructions will be printed. E2 equipment at E2 address 13 will be tested in the answer (AN) mode, and three tests in succession will be performed. Note that parameter 3 has been defaulted to zero by the use of two commas since no actual word need be specified for this test. The /E of line 0060 terminates the program.
0061	This /E separates individual program schedules.
As reqd	